

Radhasoami Dayal Ki Daya Radhasoami Sahai

AIR QUALITY MONITORING REPORT – Dated: 22.04.2021

Permissible Limits: PM₁₀ = 100; PM_{2.5} = 60, all units are in µg/m³

Sampling Site and Height	Duration of Sampling	DAYALBAGH				SANJAY PLACE @ 40 feet (Arithmetic Mean)				AIR QUALITY INDEX (AQI) ON THE BASIS OF PM _{2.5} CONCENTRATION			
		PM ₁₀ [µg/m ³]		PM _{2.5} [µg/m ³]		PM ₁₀ [µg/m ³] Calculated on the basis of PM ₁₀ /PM _{2.5} ratio at Dayalbagh		PM _{2.5} [µg/m ³] @ 40 feet		DAYALBAGH		SANJAY PLACE @ 40 feet	
		Today 22.04.2021	Yesterday 21.04.2021	Today 22.04.2021	Yesterday 21.04.2021	Today 22.04.2021	Yesterday 21.04.2021	Today 22.04.2021	Yesterday 21.04.2021	Today 22.04.2021	Yesterday 21.04.2021	Today 22.04.2021	Yesterday 21.04.2021
4/95 @ 20 feet	7:15 – 8:15 AM	✓+79↑	114	✓+44↓	37	68↑↑	176	+38↑	57	122 MODERATE	105 MODERATE	107 MODERATE	152 MODERATE
Ladder at PN (Ghodi) @ 12 feet	8:30 – 9: 30AM	✓+101↑	122	✓+49↓	40	87↑↑	131	+42	43	134 MODERATE	112 MODERATE	117 MODERATE	119 MODERATE
Science Faculty @ 20 feet	10:00 – 11:00AM	✓+95↑↑	173	✓+42↑	46	104↑↑	282	+46↑	75	117 MODERATE	127 MODERATE	127 MODERATE	161 MODERATE
Dairy @ 6 feet	11:45 – 12:45 PM	✓+61↑	84	✓+33↓	18	59↑↑	215	+32↑	46	95 SATISFACTORY	63 SATISFACTORY	93 SATISFACTORY	127 MODERATE
Control Room @ 6 feet	1:00 – 2:00 PM	✓+58↑	66	✓+25↓	13	72↑↑	178	+31↑	35	78 SATISFACTORY	53 SATISFACTORY	91 SATISFACTORY	99 SATISFACTORY

Sampling was performed on 22.04.2021.

NOTE: 1 A continuous study conducted as part of **Dayalbagh Sigma Six Qualities and Values Model** implementation.

2 DEI is using United States Environmental Protection Agency (USEPA) methodology and online calculators to calculate AQI. For fair comparison with UPPCB Sanjay Place Weather Station readings, their PM_{2.5} concentration readings are fed in USEPA online calculator for AQI calculation.

3 Formula for AQI calculation for a Pollutant –

$$I = \frac{I_{high} - I_{low}}{C_{high} - C_{low}} * (C - C_{low}) + I_{low}$$

where, I = Air Quality Index, C=Pollutant Concentration (PM_{2.5}), C_{low}=Concentration Breakpoint ≤C, C_{high}=Concentration Breakpoint ≥C, I_{low}=Index Break point corresponding to C_{low}, I_{high}=Index Breakpoint corresponding to C_{high}

4 ↑ Denotes improvement in quality (↓ Inverse)

↑↑ Denotes significant improvement in quality (↓↓ Inverse)

✓ Denotes Dayalbagh readings are better than or equivalent to Sanjay Place

+Denotes values are near or within permissible limits

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AIR QUALITY MONITORING REPORT – Dated: 22.04.2021

Location : Senior Boys Hostel
 Time : 4: 00 – 5:00 PM
 Wind Speed : 3.5 km/h

Permissible Limits: PM₁₀ = 100; PM_{2.5} = 60, all units are in µg/m³

Data Type	PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	AIR QUALITY INDEX (AQI) ON THE BASIS OF PM _{2.5} CONCENTRATION
Field Data (TWA) @6feet	✓+72	✓+ 17	61 – SATISFACTORY
Sanjay Place @ 40feet	157	+37	105 – MODERATE

Sampling was performed on 21.04.2021.

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